

1 Claims:

- 2 1. An adjustable back support system adaptable for different size wearers to  
3 provide support for the lumbar region of the wearer's back while the wearer  
4 performs bending or lifting functions comprising:

5 a back panel for pressing against said lumbar region of said wearer's  
6 back, said back panel also having side panels that extend to and press  
7 against sides of said wearer while in use;

8 a belt wrapping around and pressing said back panel with said side  
9 panels against said wearer while fastened and in use; and

10 side wings insertable between said back panel with said side panels  
11 and said belt, said side wings being independently securable and yet  
12 moveable with respect to both (1) said belt and (2) said back panel with  
13 said side panels.

- 14 2. The adjustable back support system adaptable for different size wearers as  
15 recited in claim 1 further comprising a suspension system connecting to (1)  
16 said back panel with said side panels and (2) said side wings, with a  
17 connecting means, said suspension system extending over shoulders of said  
18 wearer to maintain vertical position of said back panel against said lumbar  
19 region of said wearer.

- 20 3. The adjustable back support system adaptable for different size wearers as  
21 recited in claim 2 wherein said side wings are independently securable and

1 yet movable with respect to both (1) said belt and (2) said back panel with  
2 said side panels using hook and loop fasteners.

3 4. The adjustable back support system adaptable for different size wearers as  
4 recited in claim 3 wherein said connecting means between (1) said  
5 suspension system (2) said back panel with said side panels and (3) said  
6 side wings is a clip on said suspension system and rings on (1) said back  
7 panel with said side panels and (2) said side wings.

8 5. The adjustable back support system adaptable for different size wearers as  
9 recited in claim 4 wherein said back panel with said side panels has an  
10 outer surface, said side wings have an outer surface and an inner surface,  
11 and said hook and loop fasteners are contained on (1) said outer surface of  
12 said back panel with said side panels (2) said outer surface of said side  
13 wings and (3) said inner surface of said side wings.

14 6. The adjustable back support system adaptable for different size wearers as  
15 recited in claim 5 wherein said belt is constructed of a non-elastic, durable,  
16 woven material that acts as a hook and loop fastener.

17 7. The adjustable back support system adaptable for different size wearers as  
18 recited in claim 6 wherein said suspension system contains upper back  
19 padding and shoulder padding.

20 8. The adjustable back support system adaptable for different size wearers as  
21 recited in claim 7 wherein said belt contains a belt end with a belt buckle

1 and a belt end with a plurality of holes.

2 9. The adjustable back support system adaptable for different size wearers as  
3 recited in claim 8 wherein said belt ends are constructed of leather and  
4 said belt buckle is constructed of metal.

5 10. The adjustable back support system adaptable for different size wearers as  
6 recited in claim 9 wherein said suspension system contains three  
7 suspenders with three adjusting means.

8 11. The adjustable back support system adaptable for different size wearers as  
9 recited in claim 10 wherein said back panel with said side panels, said side  
10 wings, said upper back padding, and said shoulder padding are constructed  
11 of a non-elastic, durable, woven material with inner padding.

12 12. An adjustable back support system adaptable for different size wearers to  
13 provide support for the lumbar region of the wearer's back while the wearer  
14 performs bending or lifting functions comprising:

15 a back panel for pressing against said lumbar region of said wearer's  
16 back, said back panel also having side panels that extend to and press  
17 against sides of said wearer while in use;

18 a belt wrapping around and pressing said back panel with said side  
19 panels against said wearer while fastened and in use; and

20 side wings insertable between said back panel with said side panels  
21 and said belt, said side wings being independently securable and yet

1 moveable with respect to both (1) said belt and (2) said back panel with  
2 said side panels.

3 a suspension system connecting to (1) said back panel with said side  
4 panels and (2) said side wings, with a connecting means, said suspension  
5 system extending over shoulders of said wearer to maintain vertical position  
6 of said back panel against said lumbar region of said wearer.

7 13. The adjustable back support system adaptable for different size wearers as  
8 recited in claim 12 wherein said side wings are independently securable  
9 and yet movable with respect to both (1) said belt and (2) said back panel  
10 with said side panels using hook and loop fasteners.

11 14. The adjustable back support system adaptable for different size wearers as  
12 recited in claim 13 wherein said connecting means between (1) said  
13 suspension system (2) said back panel with said side panels and (3) said  
14 side wings is a clip on said suspension system and rings on (1) said back  
15 panel with said side panels and (2) said side wings.

16 15. The adjustable back support system adaptable for different size wearers as  
17 recited in claim 14 wherein said back panel with said side panels has an  
18 outer surface, said side wings have an outer surface and an inner surface,  
19 and said hook and loop fasteners are contained on (1) said outer surface of  
20 said back panel with said side panels (2) said outer surface of said side  
21 wings and (3) said inner surface of said side wings.

- 1 16. The adjustable back support system adaptable for different size wearers as  
2 recited in claim 15 wherein said belt is constructed of a non-elastic,  
3 durable, woven material that acts as a hook and loop fastener.
- 4 17. The adjustable back support system adaptable for different size wearers as  
5 recited in claim 16 wherein said suspension system contains upper back  
6 padding and shoulder padding.
- 7 18. The adjustable back support system adaptable for different size wearers as  
8 recited in claim 17 wherein said belt contains a belt end with a belt buckle  
9 and a belt end with a plurality of holes.
- 10 19. The adjustable back support system adaptable for different size wearers as  
11 recited in claim 18 wherein said belt ends are constructed of leather and  
12 said belt buckle is constructed of metal.
- 13 20. The adjustable back support system adaptable for different size wearers as  
14 recited in claim 19 wherein said suspension system contains three  
15 suspenders with three adjusting means.
- 16 21. The adjustable back support system adaptable for different size wearers as  
17 recited in claim 20 wherein said back panel with said side panels, said side  
18 wings, said upper back padding, and said shoulder padding are constructed  
19 of a non-elastic, durable, woven material with inner padding.
- 20 22. An adjustable back support system adaptable for different size wearers to  
21 provide support for the lumbar region of the wearer's back while the wearer

1 performs bending or lifting functions comprising:

2 a back panel for pressing against said lumbar region of said wearer's  
3 back, said back panel also having side panels that extend to and press  
4 against sides of said wearer while in use;

5 a belt wrapping around and pressing said back panel with said side  
6 panels against said wearer while fastened and in use; and

7 side wings insertable between said back panel with said side panels  
8 and said belt, said side wings being independently securable and yet  
9 moveable with respect to both (1) said belt and (2) said back panel with  
10 said side panels using hook and loop fasteners.

11 a suspension system connecting to (1) said back panel with said side  
12 panels and (2) said side wings, with a connecting means, said suspension  
13 system extending over shoulders of said wearer to maintain vertical position  
14 of said back panel against said lumbar region of said wearer, said  
15 connecting means is a clip on said suspension system and rings on (1) said  
16 back panel with said side panels and (2) said side wings, and said  
17 suspension system contains three suspenders with three adjusters, upper  
18 back padding, and lower back padding.

19 23. The adjustable back support system adaptable for different size wearers as  
20 recited in claim 22 wherein said back panel with said side panels has an  
21 outer surface, said side wings have an outer surface and an inner surface,

1 and said hook and loop fasteners are contained on (1) said outer surface of  
2 said back panel with said side panels (2) said outer surface of said side  
3 wings and (3) said inner surface of said side wings.

4 24. The adjustable back support system adaptable for different size wearers as  
5 recited in claim 23 wherein said belt is constructed of a non-elastic,  
6 durable, woven material that acts as a hook and loop fastener.

7 25. The adjustable back support system adaptable for different size wearers as  
8 recited in claim 24 wherein said belt contains a belt end with a belt buckle  
9 and a belt end with a plurality of holes.

10 26. The adjustable back support system adaptable for different size wearers as  
11 recited in claim 25 wherein said belt ends are constructed of leather and  
12 said belt buckle is constructed of metal.

13 27. The adjustable back support system adaptable for different size wearers as  
14 recited in claim 26 wherein said back panel with said side panels, said side  
15 wings, said upper back padding, and said shoulder padding are constructed  
16 of a non-elastic, durable, woven material with inner padding.